

CLAIMS

1. Compositions comprising 1,1,1,3,3-pentafluorobutane and more than 5% by weight of at least one non-flammable fluoro compound selected from hydrofluorocarbons comprising more than 3 carbon atoms, perfluorocarbons, fluoroamines and fluoro ethers.
2. Compositions comprising 1,1,1,3,3-pentafluorobutane, more than 5% by weight of at least one non-flammable fluoro compound and at least one non-fluoro organic solvent.
3. Compositions according to Claim 2, in which the non-fluoro organic solvent is selected from hydrocarbons, halohydrocarbons, aliphatic, alicyclic or aromatic esters or ketones, and alcohols or ethers.
4. Compositions according to Claim 2 or 3, in which the non-fluoro organic solvent is ethyl acetate, 1,2-dichloroethylene, methanol, ethanol, isopropanol or isobutanol.
5. Compositions according to any one of Claims 2 to 4, comprising 1,1,1,3,3-pentafluorobutane and a non-fluoro organic solvent in proportions in which they form an azeotrope or a pseudo-azeotrope.
6. Compositions according to any one of Claims 1 to 5, comprising a surfactant, preferably of imidazoline or alkylbenzenesulphonate type.
7. Compositions according to any one of Claims 1 to 6, in which the non-flammable fluoro compound is 2,3-dihydrodecafluoropentane (HFC-43-10mee), perfluorotriethylamine, perfluorobutyl methyl ether, perfluoropentane or perfluorohexane.
8. Compositions according to any one of Claims 1 to 7, comprising 1,1,1,3,3-pentafluorobutane and at least one perfluoro carbon in proportions in which they form an azeotrope or a pseudo-azeotrope.
9. Composition according to Claim 8, comprising an azeotropic or pseudo-azeotropic mixture consisting essentially of from 40 to 80% by weight of 1,1,1,3,3-pentafluorobutane and from 20 to 60% by weight of perfluorohexane, or comprising an azeotropic or pseudo-azeotropic mixture consisting essentially of from 13 to 50% by weight of 1,1,1,3,3-pentafluorobutane and from 50 to 87% by weight of perfluoropentane.
10. Use of the compositions according to any one of Claims 1 to 9, in applications as solvents, drying agents, degreasing solvents, toner-fixing agents, refrigerants or heat-exchange fluids.
11. Use according to Claim 10, as a product to replace CFC-11 (trichlorofluoromethane) or as a product to replace CFC-113 (1,1,2-trichlorotrifluoroethane).